



EPL-9™

SELF-LEVELING POLYUREA ELASTOMER

PRELIMINARY
Revised 02.24.14

DESCRIPTION

EPL-9™ is a slow set, self-leveling elastomer.

FEATURES

- Gel time of approximately 9 minutes (77°F (25°C)).
- May be hand mixed, static mixer processed, or sprayed.
- 100% solids. Zero VOCs.
- Meets FDA/USDA requirements for incidental food contact.

RECOMMENDED USES

- Self-leveling base coat
- Spot repair of pre-existing coatings
- Deck repairs
- Crack repairs
- Hard to reach places not accessible to spray equipment
- Control joint filler
- Warehouse floor repairs

COLORS

EPL-9™ is available in SPI standard Black. Custom colors will be quoted upon request. It should be noted that EPL-9™ is an aromatic polyurea; therefore, as with all aromatics, color change and superficial oxidation will occur.

Aliphatic urethane, polyurea, and other suitable topcoats can be used when long term color stability and increased longevity in full sun exposure are of critical importance.

WET PROPERTIES

Solids by Volume	100%
Solids by Weight	100%
Volatile Organic Compounds	0 lbs/gal (0g/l)
Theoretical Coverage DFT	100 sq. ft. @ 16 mils/gal
Weight per Gallon	8.8 lbs. (3.99 kg) approx.
Mix Ratio	1 "A": 1 "B"
Shelf Life Unopened Containers @ 60-90°F (15-32°C)	Six months

Minimum material/container temperature for EPL-9 application is 70°F (21 °C).

DRY PROPERTIES* Static Mixer

Tensile Strength ASTM D 412	>1700 psi (11.81mpa)
Elongation	>330%
Hardness (Shore A)	90 (0) sec
Hardness (Shore D)	40 (0) sec
Stress Modulus 100%	>800
Stress Modulus 300%	>1580
Service Temperature	-40°F - +200°F (-40°C- +93°C)

CURING SCHEDULE

Pot Life @ 77°F (25°C)	±9 min.
Tack Free @ 77°F (25°C)	1 hour approx
Final Cure*	3-4 days

**All cured film properties are approximate since processing parameters, ad-mixture types, and quantities will change physical properties of cured elastomer. All samples for above tests were force cured or aged for more than three weeks. It is recommended that the user perform their own independent testing.*

**Elevated temps will speed up the curing process.*

Complete polymerization to achieve final strength can take up to several days or weeks depending on a variety of conditions or product type.

The samples for test were sprayed with Graco HXP3 @ 2500 psi dynamic (17.38 mpa). Primaries/hose heat 170°F (77°C) MP Fusion gun with 2929 mixing chamber.

INSTALLATION

- Mix @ 1:1 ratio for two minutes.
- Some applications may require use of a primer prior to application of the sealant depending on substrate.
- **Due to very short pot life, all materials must be used immediately after mixing.**

Follow the instructions attached to "A" and "B" containers.

Note: Currently, this product is manufactured exclusively by our Lakewood, Washington facility. Therefore, please allow additional transit time as well as additional transportation charges to certain geographic areas.

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SPI Manufacturing/Distribution Locations: Lakewood, WA · Rowlett, TX · Anchorage, AK

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LIMITATIONS

- EPL-9™ is for professional application only.
- EPL-9™ must be stored at temperatures between 60° F to 90° F (15 °C to 30 °C). Minimum material/container temperature for spray application is 70°F (21 °C).
- Liquid temperature in drums during application 70°F (21°C) – 100°F (38°C).
- Apply EPL-9™ when surface and air temperatures are above 40°F (5°C) and rising, and 7°F (-13°C) above dew point.
- Avoid moisture contamination in containers. Containers should not be resealed if contamination is suspected, carbon dioxide (CO₂) created pressure can develop. Do not attempt to use contaminated material.
- Read and observe all precautions, instructions and limitations that are included with all containers of EPL-9™.
- EPL-9™ is a “slow set” (minutes) polyurea and may behave differently in the presence of moisture than the fast-set (seconds) polyurea.
- Undried air exposed to liquid components will reduce physical properties of the cured coating.

Note: The material supplied is two components (“A” and “B”) used to formulate EPL-9™. The mixture and application of the two components determine the quality and characteristics of the finished polymer.

GENERAL SAFETY, TOXICITY & HEALTH DATA

Material Safety Data Sheets are available for this coating material. Any individual who may come in contact with these products should read and understand the M.S.D.S. **CHEMTREC EMERGENCY NUMBER 1-800-424-9300**

WARNING: Contact with skin or inhalation of vapors may cause an allergic reaction. Avoid eye contact of the liquid or spray mist.

CLEAN UP: Use DPM, NMP, Polyclean.

EYE PROTECTION: Safety glasses, goggles, or a face shield are recommended.

SKIN PROTECTION: Chemical resistant gloves are recommended. Cover as much of the exposed skin area as possible with appropriate clothing.

INGESTION: Do not take internally. It is believed ingestion of polymeric isocyanates would not be fatal to humans, but may cause inflammation of mouth and stomach tissue.

RESPIRATORY PROTECTION: Use a respirator approved for isocyanates and organic vapors. If you are not sure or not able to monitor levels, or if you are spraying in an enclosed/indoor area, use MSHA/NIOSH approved supplied air respirator. Consider the application and environmental concentrations in deciding if additional protective measures are necessary.

Specialty Products, Inc. has no role in the manufacture of the finished polymer other than to supply its two components. It is vital that the person applying this product understands the product, and is fully trained and certified in the use of plural-component equipment.

Specialty Products, Inc., an Alaska corporation, warrants only that the two components of this product shall conform to the technical specifications published in the product literature.

The quality and fitness of the product are dependent upon the proper mixture and application of the components by the applicator. There are no warranties that extend beyond the description on the face of this instrument.

Failure to apply the product within the parameters stated on this document shall void the warranty.

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The data presented herein is intended for professional applicators or those persons who purchase or utilize this product in the normal course of their business.

The potential user must perform any pertinent tests in order to determine the product's performance and suitability in the intended application, since final determination of fitness of the product for any particular use is the responsibility of the buyer.

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